Day 8 - 23/11/2022

Q. Write a program to find roots of a quadratic equation
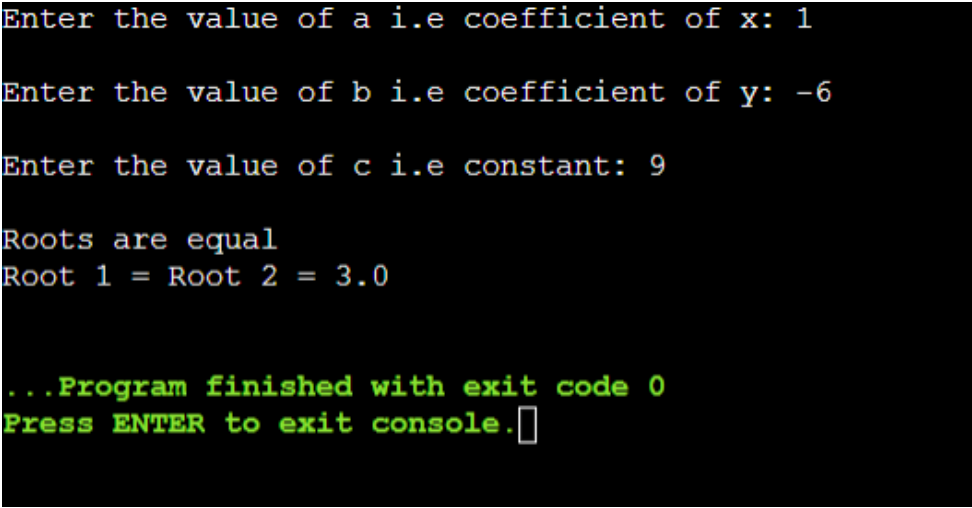
main.py

```python
a = int(input("Enter the value of a i.e coefficient of x: "))
b = int(input("\nEnter the value of b i.e coefficient of y: "))
c = int(input("\nEnter the value of c i.e constant: "))

root1 = (-b+((b*b)-4*a*c)**(1/2))/2*a
root2 = (-b-((b*b)-4*a*c)**(1/2))/2*a

if (root1==root2):
    print("\nRoots are equal\nRoot 1 = Root 2 =",root1)
else:
    print("\nRoots of the quadratic equation are:\n",root1,"and",root2)
```

output

```
Enter the value of a i.e coefficient of x: 1

Enter the value of b i.e coefficient of y: -6

Enter the value of c i.e constant: 9

Roots are equal
Root 1 = Root 2 = 3.0


...Program finished with exit code 0
Press ENTER to exit console.
```